

MAIER, T-2.ST25
SEQUENCE LISTING

<110> MAIER, THOMAS

<120> METHOD FOR FERMENTATIVE PRODUCTION OF AMINO ACIDS AND AMINO ACID
DERIVATIVES OF THE PHOSPHOGLYCERATE FAMILY

<130> MAIER, T-2

<150> GERMAN NO. 102 32 930.3

<151> 2002-07-19

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 750

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (110)..(694)

<223>

MAIER, T-2.ST25

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Val Thr Pro
1
acc ctt tta agt gct ttt tgg act tac acc ctg att acc gct atg acg 166
Thr Leu Leu Ser Ala Phe Trp Thr Tyr Thr Leu Ile Thr Ala Met Thr
5 10 15
cca gga ccg aac aat att ctc gcc ctt agc tct gct acg tcg cat gga 214
Pro Gly Pro Asn Asn Ile Leu Ala Leu Ser Ser Ala Thr Ser His Gly
20 25 30 35
ttt cgt caa agt acc cgc gtg ctg gca ggg atg agt ctg gga ttt ttg 262
Phe Arg Gln Ser Thr Arg Val Leu Ala Gly Met Ser Leu Gly Phe Leu
40 45 50
att gtg atg tta ctg tgt gcg ggc att tca ttt tca ctg gca gtg att 310
Ile Val Met Leu Leu Cys Ala Gly Ile Ser Phe Ser Leu Ala Val Ile
55 60 65
gac ccg gca gcg gta cac ctt ttg agt tgg gcg ggg gcg gca tat att 358
Asp Pro Ala Ala Val His Leu Leu Ser Trp Ala Gly Ala Ala Tyr Ile
70 75 80
gtc tgg ctg gcg tgg aaa atc gcc acc agc cca aca aag gaa gac gga 406
Val Trp Leu Ala Trp Lys Ile Ala Thr Ser Pro Thr Lys Glu Asp Gly
85 90 95
ctt cag gca aaa cca atc agc ttt tgg gcc agc ttt gct ttg cag ttt 454
Leu Gln Ala Lys Pro Ile Ser Phe Trp Ala Ser Phe Ala Leu Gln Phe
100 105 110 115
gtg aac gtc aaa atc att ttg tac ggt gtt acg gca ctg tcg acg ttt 502
Val Asn Val Lys Ile Ile Leu Tyr Gly Val Thr Ala Leu Ser Thr Phe
120 125 130
gtt ctg ccg caa aca cag gcg tta agc tgg gta gtt ggc gtc agc gtt 550
Val Leu Pro Gln Thr Gln Ala Leu Ser Trp Val Val Gly Val Ser Val
135 140 145
ttg ctg gcg atg att ggg acg ttt ggc aat gtg tgc tgg gcg ctg gcg 598
Leu Leu Ala Met Ile Gly Thr Phe Gly Asn Val Cys Trp Ala Leu Ala

MAIER, T-2.ST25

150 155 160

ggg cat ctg ttt cag cga ttg ttt cgc cag tat ggt cgc cag tta aat 646
 Gly His Leu Phe Gln Arg Leu Phe Arg Gln Tyr Gly Arg Gln Leu Asn
 165 170 175

atc gtg ctt gcc ctg ttg ctg gtc tat tgc gcg gta cgc att ttc tat 694
 Ile Val Leu Ala Leu Leu Leu Val Tyr Cys Ala Val Arg Ile Phe Tyr
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taacgaaaaa aagcggaaga ggtcgccctc ttccgcttag taacttgcta cttaag 750

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<212> PRT

<213> Escherichia coli

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Ser His Gly Phe Arg Gln Ser Thr Arg Val Leu Ala Gly Met Ser Leu
 35 40 45

Gly Phe Leu Ile Val Met Leu Leu Cys Ala Gly Ile Ser Phe Ser Leu
 50 55 60

Ala Val Ile Asp Pro Ala Ala Val His Leu Leu Ser Trp Ala Gly Ala
 65 70 75 80

Ala Tyr Ile Val Trp Leu Ala Trp Lys Ile Ala Thr Ser Pro Thr Lys
 85 90 95

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Glu Asp Gly Leu Gln Ala Lys Pro Ile Ser Phe Trp Ala Ser Phe Ala
 100 105 110

Leu Gln Phe Val Asn Val Lys Ile Ile Leu Tyr Gly Val Thr Ala Leu
 115 120 125

Ser Thr Phe Val Leu Pro Gln Thr Gln Ala Leu Ser Trp Val Val Gly
 130 135 140

Val Ser Val Leu Leu Ala Met Ile Gly Thr Phe Gly Asn Val Cys Trp
 145 150 155 160

Ala Leu Ala Gly His Leu Phe Gln Arg Leu Phe Arg Gln Tyr Gly Arg
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Gln Leu Asn Ile Val Leu Ala Leu Leu Leu Val Tyr Cys Ala Val Arg
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Ile Phe Tyr
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<212> DNA

<213> Artificial Sequence

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<223> Primer for PCR

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<210> 4

MAIER, T-2.ST25

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for PCR

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